



PATENT  
Attorney Docket No. (468330-1810) 33828/US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

MARINKOVICH

Serial No. 10/766,317

Filed: January 27, 2004

For: *Compositions and Methods for  
Inhibiting Squamous Cell  
Carcinoma*

Examiner: TIDWELL, JUDY LILLE

Art Unit: 1642

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Sir:

In satisfaction of the duty of disclosure under 37 C.F.R. § 1.56, and in accordance with the provisions of 37 C.F.R. §§ 1.97 and 1.98, Applicants wish to draw the attention of the U.S. Patent and Trademark Office to the references cited on the accompanying form PTO/SB/8A. In accordance with 1287 Off. Gaz. Pat. Office 163, 10/19/2004, no copies of U.S. patents and U.S. published applications are enclosed. Copies of foreign patents and non-patent literature are enclosed.

Further, in accordance with the provision of 37 C.F.R. §§ 1.97(c) and 1.97(e)(1), the undersigned certifies that references A38, B1, B2 and C51, C55 and C82 listed on the enclosed form PTO-SB/8A(1449) were cited in the International Search Report dated September 7, 2005, for a counterpart PCT application, PCT Application No. PCT/US2005/001575. A copy of the International Search Report for the counterpart PCT application is enclosed herewith.

As far as is known to the undersigned, this Information Disclosure Statement is being filed within three months of the filing date of a national application, within three months of the date of entry of the

national state in an international application, or before the mailing date of a first Office Action on the merits as set forth in 37 C.F.R. § 1.97(b), and therefore no fee is required

Nothing herein shall constitute an admission concerning the contents of any of the cited references, nor shall the inclusion of a reference herein be considered an admission that the reference constitutes prior art against the invention claimed in the above-identified application. Submission of the present document shall not be construed as an admission that a search has been made or that better art does not exist.

The Commissioner is authorized to charge any additional fees including extension fees, or other relief that may be required, or credit any overpayment to Deposit Account No. 50-2319 (Order No. (468330-1810) 33828/US/RFT/RMK).

Respectfully submitted,

DORSEY & WHITNEY LLP

Dated: March 29, 2006

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			Application Number	10/766,317	
			Filing Date	January 27, 2004	
			First Named Inventor	Marinkovich	
			Art Unit	1642	
Examiner Name	TIDWELL, JUDY LILLE				
Sheet	1	of	5	Attorney Docket Number	Docket 33828/US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	A1	U.S. Pat. Pub. No. 2002/0076736	06-20-2002	Findell et al.	
	A2	US-4816567	03-28-1989	Cabilly et al.	
	A3 ↑	US-6294356	09-25-2001	Jones et al.	

FOREIGN PATENT DOCUMENTS						
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	B1 ↑	WO0026342 A	5-11-2000	Northwestern University		
	B2 ↑	WO0187239 A	11-22-2001	Fibrogen, Inc. et al.		
	B3	WO 96/04000	02-15-1996	Shah et al.		
	B4	WO 91/04753	04-18-1991	Baer et al.		
	B5	WO 90/10448	09-20-1990	Bischofberger et al.		

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	C1	Ahmed et al. "Chapter 39, Immunity to Viruses" <u>Fundamental Immunology</u> , 4th edition, W. E. Paul, ed., Lippincott-Raven Publishers, 1999, Chapter 39, pp 1295-1334			
	C2	Alama et al. "Antisense Oligonucleotides as Therapeutic Agents" (1997) <u>Pharmacol Res.</u> 36(3):171-178			
	C3	Amano et al., "Bone morphogenetic protein 1 is an extracellular processing enzyme of the Laminin 5Y2 chain" 2000, <u>J. Biol. Chem.</u> , 275: 22728-35			
	C4	Boado et al., "Drug delivery of antisense molecules to the brain for treatment of Alzheimer's disease and cerebral AIDS" 1998, <u>J. Pharm. Sci.</u> 87 (11): 1308-1315			
	C5	Cassidy et al., "Malanocytes adhere to and synthesize laminin-5 <i>n vitro</i> " <u>Ep. Derm.</u> 1999, 8, 212-221			
	C6	Chan et al. "Laminin-6 and Laminin-5 are recognized by Autoantibodies in a subset of cicatricial pemphigoid" <u>Society for Invs. Derm.</u> , 1997, 848-853			
	C7	Chen et al. "NC1 Domain of Type VII Collagen Binds to the β3 chain of laminin 5 via a Unique Subdomain Within the Fibronectin-like repeats" (1999) <u>J. for Invest. Derm.</u> , 177-183			

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	C8	Crooke, S. T., "Advances in understanding the pharmacological properties of antisense oligonucleotides" 1997, <i>Adv. Pharmacol.</i> 40:1-49	
	C9	Dajee et al., "NF-κB blockade and oncogenic Ras trigger invasive human epidermal neoplasia" <i>Nature</i> vol. 421, 2003, 639-643	
	C10	Diederichsen, U., "Alanyl-PNA homoduplex: A-T Pairing with the N7-Regioisomer of Adenine" 1998, <i>Bioorganic &amp; Med. Chem. Lett.</i> , 8:165-168	
	C11	Fukushima et al., "Integrin α3β1-mediated interaction with lamin-5 stimulates adhesion, migration and invasion of malignant glioma cells" 1998, <i>Int. J. Cancer</i> , 76: 63-72	
	C12	Huse et al., "Generation of a large combinatorial library of the immunoglobulin repertoire in phage lambda" 1989, <i>Science</i> , 254: 1275-1281	
	C13	Jordan et al., "New Hetero-oligomeric peptide nucleic acids with improved binding properties to complementary DNA" (1997) <i>Bioorg. Med. Chem. Lett.</i> 7: 687-690	
	C14	Jordan et al. "Synthesis of new building blocks for peptide nucleic acids containing monomers with variations in the backbone" (1997) <i>Bioorg. Med. Chem. Lett.</i> 7: 637-627;	
	C15	Kirtschig et al. "Anti-basement membrane autoantibodies in patients with anti-peiligrin cicatricial pemphigoid bind the α subunit of laminin 5", <i>J. Invest. Derm.</i> (1995) 105, 543-548	
	C16	Kumar et al., "Pyrrolidine Nucleic Acids: DNA/PNA Oligomers with 2-hydroxy/aminoethyl-4(thymine-1-yl) pyrrolidine-N-acetic acid" 2001, <i>Organic Letters</i> 3(9): 1269-1272	
	C17	Lavrosky et al., "Therapeutic potential and mechanism of action of oligonucleotides and ribozymes" 1997, <i>Biochem. Mol. Med.</i> 62(1):11-22.	
	C18	Lee et al., "Polyamide Nucleic Acid Targeted to the Primer Binding Site of the HIV-1 RNA Genome Blocks <i>in vitro</i> HIV-1 Reverse Transcription" 1998, <i>Biochemistry</i> 37 (3):900-1010	
	C19	Li et al. "Laminin-10 is crucial for hair morphogenesis" <i>The EMBO Journal</i> , vol. 22, no. 10, pp. 2400-2410	
	C20	Maddox et al., "Elevated serum levels in human pregnancy of a molecule immunochemically similar to eosinophil granule major basic protein" 1983, <i>J Exp Med</i> , 158: 1211	
	C21	Marcus-Sakura "Techniques for using antisense oligodeoxyribonucleotides to study gene expression" (1988) <i>Anal. Biochem.</i> 172:289	
	C22	Marinkovch et al. "Basement Membrane Proteins Kalinin and Nicein are Structurally and Immunologically Identical: <i>Lab. Invest.</i> , 1993, vol. 69, No. 3, pp. 295-299	
	C23	Marinkovich et al., "The dermal-epidermal junction of human skin contains a novel laminin variant" <i>J. Cell. Biol.</i> vol. 119, no. 3, 1992, 695-703	

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	C24	Marinkovich M. P. et al, "The Anchoring Filament Protein Kalinin is Synthesized and Secreted as a High Molecular Weight Precursor", <i>Journal of Biological Chemistry</i> , vol. 267, no. 25, 1992, pages 17900-17906	
	C25	McGowan et al. "Laminins and human disease" <i>Microscopy Res. and Tech.</i> 51:262-279 (2000)	
	C26	Meneguzzi et al. "Kalinin is abnormally expressed in epithelial basement membranes of Herliz's junctional epidermolysis bullosa patients" <i>Exp. Derm.</i> 1992, pp. 221-229	
	C27	Meneguzzi et al., "Kalinin is abnormally expressed in epithelial basement membranes of Herliz's junctional epidermolysis bullosa patients", 1992, <i>Exp. Derm.</i> 1, 221-229	
	C28	Miller, "Progress Toward Human Gene Therapy" 1990, <i>Blood</i> , 76: 271	
	C29	Miquel et al., "Establishment and Characterization of cell line LSV5 that retains the altered adhesive properties of human junctional epidermolysis bullosa keratinocytes, <i>Exp. Cell. Res.</i> , 224, 279-290 (1996)	
	C30	Mizushima H. et al., "Identification of Integrin-dependent and independent cell adhesion domains in cooh-terminal globular region of alminin-5 alpha3 chain" <i>Cell Growth and Differentiation</i> , The Association, Phil. Pa, US, Vol. 8, no. 9, September 1997 (1997-09), pages 979-987	
	C31	Morris et al., "A new peptide vector for efficient delivery of oligonucleotides into mammalian cells" 1997, <i>Nucl. Acids Res.</i> 25 (14): 2730-2736	
	C32	Nielsen, P. E. and G. Haaima, "Peptide nucleic acid (PNA). a DNA mimic with a pseudopeptide backbone" 1997, <i>Chem. Soc. Rev.</i> 96:73-78	
	C33	O'Toole et al. "Laminin-5 inhibits human keratinocyte migration" <i>Exp. Cell. Res.</i> 233, 330-339 (1997)	
	C34	Orlandi et al., "Cloning immunoglobulin variable domains for expression by the polymerase chain reaction" 1989, <i>Proc. Natl. Acad. Sci.</i> 86: 3833-3837	
	C35	Ortiz-Urda et al. "Injection of genetically engineered fibroblasts corrects regenerated human epidermolysis bullosa skin tissue" <i>J. Clin. Invest.</i> 2003, Vol. 111, No. 2, pps. 251-255	
	C36	Pardridge et al., "Vector-mediated delivery of a polyamide ("peptide") nucleic acid analogue through the blood-brain barrier <i>in vivo</i> " 1995, <i>Proc. Nat. Acad. Sci.</i> 92 (12):5592-5596	
	C37	Pyke et al., "Laminin-5 is a marker of invading cancer cells in some human carcinomas and is coexpressed with the receptor for urokinase plasminogen activator in budding cancer cells in colon adenocarcinomas" 1995, <i>Canc. Res.</i> 55: 4132-4139; Berndt et al., 1997, <i>Invasion and Metastasis</i> , 17: 251-258	

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	C38	Pyke, et al., "The $\gamma$ 2 chain of kalinin/Laminin 5 is preferentially expressed in invading malignant cells in human cancers" 1994, <i>Am. J. Pathol.</i> 145(4):782-791	
	C39	Rammensee, H., et al. "SYFPEITHI: database for MHC ligands and peptide motifs": (1999) <i>Immunogenetics</i> , 50:213-219	
	C40	Rossi et al., "Exploring the use of antisense, enzymatic RNA molecules (Ribozymes) as therapeutic agents" 1991, <i>Antisense Res. Dev.</i> 1(3):285-288	
	C41	Rossi, "Therapeutic antisense and ribozymes" 1995, <i>Br. Med. Bull.</i> 51 (1): 217-225	
	C42	Russell et al., " $\alpha$ 6 $\beta$ 4 integrin regulates keratinocyte chemotaxis through differential GTPase activation and antagonism of $\alpha$ 3 $\beta$ 1 integrin" 2003, <i>J. Cell Sci.</i> 116 (17):3543-3556	
	C43	Ryan et al. "Cloning of the LamA3 Gene Encoding the alpha3 chain of the adhesive ligand epiligrin" <i>J. Bio. Chem.</i> vol. 269, no. 36, pp. 22779-22787 (1984)	
	C44	Slater et al., "The latex allergen Hev b 5 transcript is widely distributed after subcutaneous injection in BALB/c mice of its DNA vaccine" 1998, <i>J. Allergy Clin. Immunol.</i> 102 (3): 469-475	
	C45 <sup>1</sup>	Stoltzfus P. et al., "Lamin-5 Gamma2 Chain Expression Facilitates Detection of Invasive Squamous Cell Carcinoma of the Uterine Cervix, <i>International Journal of Gynecological Pathology</i> , Vol. 23, no. 3, July 2004 (2004-07), pages 215-222	
	C46	Uckert and Walther, "Retrovirus-mediated gene transfer in cancer therapy" 1994, <i>Pharmacol. Ther.</i> , 63(3): 323-347	
	C47	van Hest et al., "Efficient introduction of alkene functionality into proteins in vivo" <i>FEBS Lett</i> 428:(1-2) 68-70 May 22 1998	
	C48	Veitch et al., "Mammalian Tolloid Metalloproteinase, and not matrix metalloprotease 2 or membrane type 1 metalloprotease, processes laminin-5 in keratinocytes and skin" 2003, <i>J. Biol. Chem.</i> , 278: 15661-15668	
	C49	Verhoeyen et al., "Reshaping human antibodies: grafting an antilysozyme activity" 1988, <i>Science</i> , 239: 1534-1536	
	C50	Weinberg et al. "How cancer arises: an explosion of research in uncovering the long-hidden molecular underpinnings of cancer and suggesting new therapies" <i>Scientific American</i> (1996) (September ) pps 62-70	
	C51	Winter, G. and C. Milstein, "man-made antibodies" 1991, <i>Nature</i> , 349: 293-299	
	C52	Yi-shan et al. "Self-assembly of Laminin Isoforms" <i>J. Bio. Chem.</i> vol. 272, no. 50, pp 31525-31532 (1997)	

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